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Recent advances in unmanned aerial vehicles real-time trajectory planning François Charles Joseph Allaire, a1 Gilles Labonté, b Mohammed Tarbouchi, a Vincent Roberge a a Department of Electrical Engineering and Computer Engineering, Royal Military College of Canada, Kingston, ON K7K 7B4, Canada.

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Introduction. A team of launched and coordinated Unmanned aerial vehicles (UAVs), requires advanced technologies in sensing, communication, computing, and control to improve their intelligence and robustness towards autonomous operations. To enhance reliability, robustness, and mission capability of a team of UAVs, a system-oriented and holistic approach is desirable in which all components and subsystems are considered in terms of their roles and impact on the entire system.

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Advances in Unmanned Aerial Vehicles: State of the Art and the Road to Autonomy (Intelligent Systems, Control and Automation: Science and Engineering) There has been tremendous emphasis in unmanned aerial vehicles, both of fixed (airplanes) and rotary wing (vertical take off and landing, helicopters) types over the past ten years.

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In addition to a powerful vertical lift rotor, the new UAV (unmanned aerial vehicle) from Kawasaki features two forward thrust rotors and a fixed wing for horizontal flight. It's powered by the same supercharged H2R engine used by the company's 'Ninja' motorcycle.

~~Kawasaki Unveils New Motorcycle-Sized Unmanned Helicopter ...~~

Nikola Tesla described a fleet of uncrewed aerial combat vehicles in 1915. Advances followed during and after World War I, including the British Hewitt-Sperry Automatic Airplane (1917) and the RAE Larynx (1927). These developments also inspired the construction of the Kettering Bug by Charles Kettering from Dayton, Ohio. Initially meant as an uncrewed plane that would carry an explosive payload to a predetermined target.

~~Unmanned aerial vehicle - Wikipedia~~

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## ~~Recent Advances in Research on Unmanned Aerial Vehicles ...~~

Advances in unmanned aerial vehicle (UAV), or drone, technology were once again under the spotlight at a Drone Conference held at Emperor's Palace last week, which saw companies discussing advances in agricultural surveying, camera technology and drone deliveries, amongst others.

## ~~Advances in drone technology come under the spotlight ...~~

Unmanned aerial vehicles (UAVs) have the potential to capture information about the earth's surface in dangerous and previously inaccessible locations. Through image acquisition of flash flood events and subsequent object-based analysis, highly dynamic and oft-immeasurable hydraulic phenomena may be quantified at previously unattainable spatial and temporal resolutions.

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